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M	AvgFeederLen gth	Lines Times Average Feeder Length	= AvgFeederLength	
N	LinesLoopLen gth	Total Lines Loop Length	= LinesLoopLength	
O	DistrCost	Total Distribution Cost	= DistrCost	
P	FeederCost	Grand Total Feeder Cost	= FeederCost	
Q	LoopCost	UnCapped Total Loop Cost	= LoopCost	
R	CapLoopCost	Capped Total Loop Cost	= CapLoopCost	
S	LandInv	2111 Uncapped Land Investment	= LandInv	
Т	BldgInv	2121 Uncapped Building Investment	= BldgInv	
U	SWInv	2210 Uncapped Switching and Signaling Investment	= SwitchInv	
V	CircuitInv	Uncapped 2230 Total DLC, DS1 Electronic Investment	= CircuitInv	
W	IOFInv	2232 Uncapped IOF Investment	= IOFInv	
X	AerialCopperI nv	UnCapped 2421 Aerial Copper Cable Investment	= AerialCopperInv	

Y	UndergndCop	UnCapped	= UndergndCopperInv	
•	perInv	2422	- Chacigna coppernit	
	perm	Underground		
		Copper Cable		
		Investment		
Z	BuriedCopperI	UnCapped	= BuriedCopperInv	
L	nv	2423 Buried	- Buricucopperniv	į
		Copper Cable		
	,	Investment		}
AA	AerialFiberInv	UnCapped	= AerialFiberInv	
AA	Actian locality	2421 Aerial	- Actual locality	
		Fiber Cable		
		Investment		ĺ
AB	UndergndFiber	UnCapped	= UndergndFiberInv	
AD	Inv	2422	- Charighar locality	
	1117	Underground		l
		Fiber Cable		
		Investment		
AC	BuriedFiberIn	UnCapped	= BuriedFiberInv	
	v	2423 Buried		ł
		Fiber Cable		
		Investment		Ì
AD	PoleInv	UnCapped	= PoleInv	
		2411 Pole Line		
		Investment		
ĀĒ	ConduitInv	UnCapped	= ConduitInv	
		2441 Conduit		
		Investment		
AF	MotorVehSup	UnCapped	= MotorVehSupport	
	port	2112 Motor		
	•	Vehicles		
AG	SPVehSupport	UnCapped	= SPVehSupport	
}	• •	2114 Special		
		Purpose		
		Vehicles		
AH	GarageWorkS	UnCapped	= GarageWorkSupport	
	upport	2115 Garage		
		Work		
		Equipment		

	0.1 102 1.5	I I I I I		
ΑI	OtherWorkSup		= OtherWorkSupport	
	port	2116 Other		
		Work		
		Equipment		
AJ	NetworkSuppo	UnCapped	= NetworkSupport	
İ	rt	2110 Network		
1		Support		
AK	FurnitureSupp	UnCapped	= FurnitureSupport	
	ort	2122 Furniture		
		Support		Ì
1		Investment		
AL	OfficeSupport	UnCapped	= OfficeSupport	
	, and the second	2123 Office		
ļ		Support		
		Investment		
AM	GPComputers	UnCapped	= GPComputersSupport	
AW	Support	2124 General	- or computersoupport	
<u> </u>	Support	Purpose		
]		Computers		
AN	GeneralSuppor	UnCapped	= GeneralSupport	
AIN		2120 General	= General Support	
1	t	1		
<u> </u>		Support		
AO	OtherInvInclL	UnCapped	= OtherInvInclLandBldg	
	andBldg	2110 Land and		
1		Support		
<u></u>		Investment		
AP	CapCircuitInv	Capped	= CapCircuitInv	
1		2230 Circuit		
		Investment		
AQ	CapPoleInv	Capped	= CapPoleInv	
1	 	2411 Pole Line		
L.		Investment		
AR	CapAerialCop	Capped	= CapAerialCopperInv	
	perInv	2421 Aerial		
	ļ ·	Copper Cable		
\		Investment		
AS	CapUndergnd	Capped	= CapUndergndCopperInv	i
	CopperInv	2422		
		Underground		
1	1	Copper Cable		
		Investment		
<u> </u>	<u> </u>	THYCSUHCIR		L

AT	CapBuriedCop perInv	Capped 2423 Buried Copper Cable	= CapBuriedCopperInv	
AU	CapAerialFibe rInv	Investment Capped 2421 Aerial Fiber Cable Investment	= CapAerialFiberInv	
AV	CapUndergnd FiberInv	Capped 2422 Underground Fiber Cable Investment	= CapUndergndFiberInv	
AW	CapBuriedFibe rInv	Capped 2423 Buried Fiber Cable Investment	= CapBuriedFiberInv	
AX	CapConduitIn v	Capped 2441 Conduit Investment	= CapConduitInv	
AY	CapMotorVeh Support	Capped 2112 Motor Vehicles	= CapMotorVehSupport	
AZ	CapSPVehSup port	Capped 2114 Special Purpose Vehicles	= CapSPVehSupport	
ВА	CapGarageWo rkSupport	Capped 2115 Garage Work Equipment	= CapGarageWorkSupport	
BB	CapOtherWor kSupport	Capped 2116 Other Work Equipment	= CapOtherWorkSupport	
ВС	CapFurnitureS upport	Capped 2122 Furniture Support Investment	= CapFurnitureSupport	

	G OFF S			
BD	CapOfficeSup	Capped	= CapOfficeSupport	
	port	2123 Office		ĺ
	}	Support		
		Investment		
BE	CapGPComput	Capped	= CapGPComputersSupport	}
1	ersSupport	2124 General		
İ		Purpose		
		Computers		
BF	CapOtherInvIn	Capped	= CapOtherInvInclLandBldg	
	clLandBldg	2110 Land and		
<b> </b>		Support		
L		Investment		
BG	Acct6110	UnCapped	= Acct6110 + BAcct6110	
		6110 Network		
1		Support		
<b>.</b>		Expenses		
BH	Acct6120	UnCapped	= Acct6120 + BAcct6120	
		6120 General		
}	t 	Support		
ĺ	ļ	Expense		
BI	Acct6210	6210	= Acct6210 + BAcct6210	
		Switching		
İ		Expense		
BJ	Acct6230	UnCapped	= Acct6230 + BAcct6230	
		6230 Central		
		Office		ļ
1	]	Transmission		
		Expense		
BK	Acct6230IOF	6230	= Acct6230IOF + BAcct6230IOF	
		InterOffice		
		Transmission		
BL	Acct6310	6310	= Acct6310 + BAcct6310	
		Information		
		Origination /		
		Termination		
		Expense		
BM	Acct6411	UnCapped	= Acct6411 + BAcct6411	
		6411 Poles		
		Expense		
<b></b>	<u> </u>	1 2/100		

		-T	
BN	Acct64211	UnCapped	= Acct64211 + BAcct64211
		6421 Aerial	
	}	Copper Cable	
		Expense	
BO	Acct64212	UnCapped	= Acct64212 + BAcct64212
ĺ		6421 Aerial	
		Fiber Cable	
		Expense	
BP	Acct64221	UnCapped	= Acct64221 + BAcct64221
		6422	
1		Underground	
		Copper Cable	
		Expense	
BQ	Acct64222	UnCapped	= Acct64222 + BAcct64222
		6422	
		Underground	
		Fiber Cable	
		Expense	
BR	Acct64231	UnCapped	= Acct64231 + BAcct64231
		6423 Buried	
		Copper Cable	
		Expense	
BS	Acct64232	UnCapped	= Acct64232 + BAcct64232
	]	6423 Buried	
		Fiber Cable	
ļ		Expense	
BT	Acct6441	UnCapped	= Acct6441 + BAcct6441
		6441 Conduit	
		Investment	
1	ļ	System	
l		Expense	
BU	Acct6410	UnCapped	= Acct6410 + BAcct6410
		6410 Cable	
ļ	1	and Wire	
		Facilities	
1		Expense	
BV	Acct6510	6510 Other	= Acct6510 + BAcct6510
l		Property, Plant	
l		and Equipment	
		Expense	
L	<del></del>		

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BW	Acct6530	(520 N 1	1 4520 PA 4520	
BW	Accide 30	6530 Network	= Acct6530 + BAcct6530	1
		Operations		
<u> </u>		Expense		
BX	Acct6610	6610 Customer	= Acct6610 + BAcct6610	
Ì		Operations -		
		Marketing		
		Expense		
BY	Acct6620	6620 Customer	= Acct6620 + BAcct6620	
		Operations -		
		Services		
		Expense		
BZ	Acct6710	6710	= Acct6710 + BAcct6710	
		Corporate		
		Operations -		
		Executive and		
<u>'</u>		Planning		
		Expense		
CA	Acct6720	6720	= Acct6720 + BAcct6720	
1	J.	Corporate		
		Operations -		
		General and		
		Administrative		
		Expense		
CB	Acct6790	6790	= Acct6790 + BAcct6790	
]		Corporate		
l		Operations -		
		Uncollectible		
		Expense		
CC	TotalOperating	UnCapped	= TotalOperatingExpense + BTotalOperatingExpense	
	Expense	Total		
		Operating		
		Expense		
CD	CapAcet6110	Capped	= CapAcct6110 + CapBAcct6110	
	'	6110 Network		
		Support		
1		Expenses		
CE	CapAcct6230	Capped	= CapAcct6230 + CapBAcct6230	
		6230 Central		
-		Office		
		Transmission		
		Expense		
L	L			

CF	CapAcct6411	Capped	= CapAcct6411 + CapBAcct6411	
Cr	Сарисскочтт	6411 Poles	- CapAccio411 + CapBAccio411	
		Expense		
CG	CapAcct64211	Capped	= CapAcct64211 + CapBAcct64211	
CG	CapAccio4211	6421 Aerial	= CapAcci04211 + CapBAcci04211	ĺ
	1			
l		Copper Cable		
-	6 4 (4010	Expense		
СН	CapAcct64212		= CapAcct64212 + CapBAcct64212	
ŀ		6421 Aerial		
		Fiber Cable		
<u> </u>		Expense		
CI	CapAcct64221	Capped	= CapAcct64221 + CapBAcct64221	
		6422		
ŀ		Underground		
}		Copper Cable		
		Expense		
CJ	CapAcct64222	Capped	= CapAcct64222 + CapBAcct64222	
		6422		
ĺ		Underground		
		Fiber Cable		
		Expense		
CK	CapAcct64231	Capped	= CapAcct64231 + CapBAcct64231	
1		6423 Buried		!
		Copper Cable		
		Expense		
CL	CapAcct64232	Capped	= CapAcct64232 + CapBAcct64232	
		6423 Buried		
		Fiber Cable		
		Expense		
CM	CapAcct6441	Capped	= CapAcct6441 + CapBAcct6441	
1		6441 Conduit		
		Investment		
<b>.</b>		System		
		Expense		
CN	CapAcct6410	Capped	= CapAcct6410 + CapBAcct6410	
```		6410 Cable	Superiorio i Superiorio	
]		and Wire		
		Facilities		
		Expense		
L	L	LAPENSE		

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CO	CapTotalOper	Capped Total	= CapTotalOperatingExpense + CapBTotalOperationExpense	
	atingExpense	Operating		
		Expense		
CP	AnnualDepCos	UnCapped	= AnnualDepCost	
	t	Total Annual		
		6560		
		Depreciation		
CQ	CapAnnualDe	Capped Total	= CapAnnualDepCost	
	pCost	Annual 6560		
		Depreciation		
CR	AcfAnnualCap	Uncapped	= AcfAnnualCapitalCost	
	italCost	Total Annual		
<u> </u>		Capital Cost		
CS	CapAnnualCap	Capped Total	= CapAnnualCapitalCost	
	italCost	Annual Capital		
CTP.	A IT C	Cost	= AnnualTaxCost	
CT	AnnualTaxCos	UnCapped Total Annual	= Annuai i axCost	
Ì	] <sup>[</sup>	Tax Cost		
CU	CapAnnualTax	Total Capped	= CapAnnualTaxCost	
100	CapAnnuarrax	Annual Tax	= CapAnnuai LaxCost	
	Cost	Cost		
CV	AnnualReturn	UnCapped	= AnnualReturnCost	
• •	Cost	Total Annual	2 Atmuarketurneost	
	(03)	Return		
CW	CapAnnualRet	Capped Total	= CapAnnualReturnCost	
	urnCost	Annual Return		
CX		Uncapped	= (TotalOperatingExpense + AnnualTaxCost + AnnualReturnCost) * VLOOKUP (StateID,	·**
		Gross Receipts	StateInformationTable, 5, FALSE) / (1 - VLOOKUP (StateID, StateInformationTable, 5,	
[		Tax	FALSE))	
CY		Capped Gross	= (TotalOperatingExpense + CapAnnualTaxCost + CapAnnualReturnCost) * VLOOKUP	
		Receipts Tax	(StateID, StateInformationTable, 5, FALSE) / (1 - VLOOKUP (StateID, StateInformationTable,	
			5, FALSE))	
CZ	ResBenchmark	UnCapped	= ResBenchmark I	
	1	Residential		
		Support Over		
		\$0.00		
		Benchmark		

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D.A.	DogDon bereit	IInC-mail	Download to world	
DA	ResBenchmark	UnCapped	= ResBenchmark2	
	2	Residential		
1		Support Over		
		\$0.00		
		Benchmark		
DB	ResBenchmark	UnCapped	= ResBenchmark3	
	3	Residential		i
		Support Over		
		\$0.00		
L		Benchmark		
DC	ResBenchmark	UnCapped	= ResBenchmark4	:
	4	Residential		
		Support Over		,
1		\$0.00		
L		Benchmark		
DD	ResBenchmark	UnCapped	= ResBenchmark5	
	5	Residential		
		Support Over		
		\$0.00		
		Benchmark		
DE	ResBenchmark	UnCapped	= ResBenchmark6	
	6	Residential		
		Support Over		
		\$0.00		
		Benchmark		
DF	ResBenchmark	UnCapped	= ResBenchmark7	
	7	Residential		:
	1	Support Over		
		\$0.00		
<u></u>		Benchmark		
DG	BusBenchmark	UnCapped	= BusBenchmark I	
İ	1	Business		
		Support Over		
		\$0.00		
		Benchmark		
DH	BusBenchmark	UnCapped	= BusBenchmark2	1
	2	Business		
1		Support Over		
]		\$0.00		
L	<u> </u>	Benchmark		<u> </u>

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DI	BusBenchmark	IInConnod	= BusBenchmark3	
DI	BusBenchmark 3	UnCapped Business	= BusBenchmark3	
}	3			
		Support Over \$0.00		
		· ·		
- TO 1	D D 1 1	Benchmark		
DJ	BusBenchmark	UnCapped	= BusBenchmark4	
	4	Business		
		Support Over		
		\$0.00		
73.77	B B 1 1	Benchmark		
DK	BusBenchmark	UnCapped	= BusBenchmark5	
	5	Business		
		Support Over		
i		\$0.00		
		Benchmark		
DL	BusBenchmark	UnCapped	= BusBenchmark6	
	6	Business		
]		Support Over		
		\$0.00		
		Benchmark		
DM	BusBenchmark	UnCapped	= BusBenchmark7	
	7	Business		
		Support Over		
		\$0.00 Baraharan		
	G B B 1	Benchmark		<del></del>
DN	CapResBench	Capped	= CapResBenchmark I	
	mark i	Residential		
		Support Over		
1		\$0.00		
-	C D D 1	Benchmark		
DO	CapResBench	Capped	= CapResBenchmark2	
	mark2	Residential		
1		Support Over \$0.00		
1		Benchmark		
DP	CapResBench		- Can Das Danah mark 2	
DP	mark3	Capped Residential	= CapResBenchmark3	
	mark3	Support Over		
į.		\$0.00		
İ		Benchmark		
L	l	Denemnark		<del></del> _

	0 0 5			
DQ	CapResBench	Capped	= CapResBenchmark4	
ļ	mark4	Residential		1
		Support Over		
		\$0.00		
		Benchmark		
DR	CapResBench	Capped	= CapResBenchmark5	
	mark5	Residential		
		Support Over		
		\$0.00		
		Benchmark		
DS	CapResBench	Capped	= CapResBenchmark6	
	mark6	Residential		
	1	Support Over		
		\$0.00		
	-	Benchmark		
DT	CapResBench	Capped	= CapResBenchmark7	
-	mark7	Residential		
		Support Over		
Ì		\$0.00		
		Benchmark		
DU	CapBusBench	Capped	= CapBusBenchmark1	
	mark I	Business		
		Support Over		
}		\$0.00		
		Benchmark		
DV	CapBusBench	Capped	= CapBusBenchmark2	
	mark2	Business		
		Support Over		
		\$0.00		
		Benchmark		
DW	CapBusBench	Capped	= CapBusBenchmark3	
	mark3	Business		
		Support Over		
1	ļ	\$0.00		
		Benchmark		
DX	CapBusBench	Capped	= CapBusBenchmark4	
	mark4	Business	– сарвазвененникт	
	IIIIIKT	Support Over		
		\$0.00		
		Benchmark		
L	<u> </u>	Delicitiiaik		L

DY	CanBucBanak	Conned	- Can Dua Danuh mark 5	
ן עע	CapBusBench mark5	Capped Business	= CapBusBenchmark5	
i	marko			1
		Support Over \$0.00		ļ
		Benchmark		-
DZ	CapBusBench	Capped	= CapBusBenchmark6	
DL	mark6	Business	= Сарбиябенсинатко	- 1
	itiai KU	Support Over		
		\$0.00		
		Benchmark		
EA	CapBusBench	Capped	= CapBusBenchmark7	
L.A.	mark7	Business	- CupDusDonomium	
	11100111/	Support Over		
1		\$0.00		
		Benchmark		
EB	SqMiles	Area-sq Miles	= SqMiles	
EC	AerialRouteLe	Aerial Route	= AerialRouteLength	
	ngth	Length		İ
ED	BuriedRouteL	Buried Route	= BuriedRouteLength	
	ength	Length		1
EE	UndergroundR	Underground	= UndergroundRouteLength	
	outeLength	Route Length		
EF	NumberofPole	Number of	= NumberofPoles	
	S	Poles		}
EG	NumberofMan	Number of	= NumberotManholes	
	holes	Manholes		
EH	GridLinesServ	Grid Lines	= GridLinesServedonDLC_L	
	edonDLC_L	Served on		ı
		DLC-L		
EI	GridLinesServ	Grid Lines	= GridLinesServedonDLC_S	j
1	edonDLC_S	Served on		
		DLC-S		
EJ	GridLinesServ	Grid Lines	= GridLinesServedonCopper	
	edonCopper	Served on		
		Copper		
EK	NumberofDLC	Number of	= NumberofDLC_LTerminals	
	_LTerminals	DLC-L		
-	N. I. COLG	Terminals	N DV C CT	
EL	NumberofDLC	Number of	= NumberofDLC_STerminals	
	_STerminals	DLC-S		
L	L	Terminals		

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EM	HHByCost_1	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +
	ļ	Cost < \$5	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *
			BusProportion) = 1, HouseHolds, 0))
EN	HHByCost_2	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +
		Cost < \$10	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *
			BusProportion) = 2, HouseHolds, (0) )
EO	HHByCost_3	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +
		Cost < \$15	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *
			BusProportion) = 3, HouseHolds, 0) )
EP	HHByCost_4	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +
		Cost < \$20	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *
			BusProportion) = 4, HouseHolds, 0))
EQ	HHByCost_5	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +
		Cost < \$25	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *
			BusProportion) = 5, HouseHolds, 0))
ER	HHByCost_6	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +
1		Cost < \$30	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *
	<u> </u>		BusProportion) = 6, HouseHolds, 0))
ES	HHByCost_7	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +
i		Cost < \$35	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *
			BusProportion) = 7, HouseHolds, 0))
ET	HHByCost_8	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +
		Cost < \$40	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *
			BusProportion) = 8, HouseHolds, 0))
EU	HHByCost_9	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +
<u> </u>	İ	Cost < \$45	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *
			BusProportion) = 9, HouseHolds, 0))
EV	HHByCost_10	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +
	Į.	Cost < \$50	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *
			BusProportion) = 10, HouseHolds, (1)
EW	HHByCost_11	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +
1		Cost < \$55	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *
			BusProportion) = 11, HouseHolds, 0))
EX	HHByCost_12	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +
		Cost < \$60	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *
			BusProportion) = 12, HouseHolds, (0) )
EY	HHByCost_13	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +
		Cost < \$65	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *
		<u> </u>	BusProportion) = 13, HouseHolds, 0))

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EZ	HHByCost_14	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +
	' -	Cost < \$70	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *
			BusProportion) = 14, HouseHolds, 0))
FA	HHByCost_15	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +
		Cost < \$75	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *
	]		BusProportion) = 15, HouseHolds, (0)
FB	HHByCost_16	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +
		Cost < \$100	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *
			BusProportion) = 16, HouseHolds, (1)
FC	HHByCost_17	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +
]		Cost < \$150	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *
			BusProportion) = 17, HouseHolds, 0))
FD	HHByCost_18	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +
		Cost <\$200	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *
			BusProportion) = 18, HouseHolds, 0))
FE	HHByCost_19	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +
		Cost < \$250	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *
			BusProportion) = 19, HouseHolds, (1)
FF	HHByCost_20	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +
		Cost < \$300	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *
			BusProportion) = 20, HouseHolds, (1)
FG	HHByCost_21	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +
		Cost < \$500	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *
			BusProportion) = 21, HouseHolds, (0) )
FH	HHByCost_22	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +
1	1	Cost <	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *
		\$10,000	BusProportion) = 22, HouseHolds, 0))
FI	HHByCost_23	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +
		Cost >	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *
L		\$10,000	BusProportion) = 23, HouseHolds, (1)
FJ	HHByLoop_1	Households By	= IF (getbyloopindex (LinesLoopLength, GridLines) = 1, HouseHolds, 0)
		Loop < 5K	
FK	HHByLoop_2	Households By	= IF (getbyloopindex (LinesLoopLength, GridLines) = 2, HouseHolds, 0)
		Loop < 10K	
FL	HHByLoop_3	Households By	= IF (getbyloopindex (LinesLoopLength, GridLines) = 3, HouseHolds, 0)
		Loop < 15K	
FM	HHByLoop_4	Households By	= IF (getbyloopindex (LinesLoopLength, GridLines) = 4, HouseHolds, 0)
		Loop < 20K	
FN	HHByLoop_5	Households By	= IF (getbyloopindex (LinesLoopLength, GridLines) = 5, HouseHolds, 0)
		Loop < 25K	

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FO	HHByLoop_6	Households By		= IF (getbyloopindex (LinesLoopLength, GridLines) = 6, HouseHolds, 0)	
		Loop < 30K			
FP	HHByLoop_7	Households By		= IF (getbyloopindex (LinesLoopLength, GridLines) = 7, HouseHolds, 0)	
		Loop < 40K			
FQ	HHByLoop_8	Households By		= IF (getbyloopindex (LinesLoopLength, GridLines) = 8, HouseHolds, 0)	
		Loop < 50K			
FR	HHByLoop_9	Households By		= IF (getbyloopindex (LinesLoopLength, GridLines) = 9, HouseHolds, 0)	
		Loop < 60K			
FS	HHByLoop_1	Households By		= IF (getbyloopindex (LinesLoopLength, GridLines) = 10, HouseHolds, 0)	
	0	Loop < 70K			
FT	HHByLoop_i	Households By		= IF (getbyloopindex (LinesLoopLength, GridLines) = 11, HouseHolds, 0)	
	1	Loop < 80K			
FU	HHByLoop_1	Households By		= IF (getbyloopindex (LinesLoopLength, GridLines) = 12, HouseHolds, 0)	
	2	Loop < 90K			
FV	HHByLoop_1	Households By		= IF (getbyloopindex (LinesLoopLength, GridLines) = 13, HouseHolds, 0)	
	3	Loop < 100K			
FW	HHByLoop_1	Households By		= IF (getbyloopindex (LinesLoopLength, GridLines) = 14, HouseHolds, 0)	
	4	Loop < 150K			
FX	HHByLoop_1	Households By		= IF (getbyloopindex (LinesLoopLength, GridLines) = 15, HouseHolds, 0)	
ļ	5	Loop < 200K			
FY	HHByLoop_1	Households By		= IF (getbyloopindex (LinesLoopLength, GridLines) = 16, HouseHolds, 0)	
ļ	6	Loop > 200K			ļ
FZ	LinesAbove10	Lines Above		= IF (GridLines = 0, 0, IF ( (LoopCost / GridLines) > InvLoopCap, HouseHolds, 0) )	
l	KLoopInv	10K Loop			
	ļ	Investment			
GA		Minimum	Data for this		
		Loop Length	column		
			developed for		
			each density		
1	<u> </u>		group only.		
			Appended to record before		
			data is written		
ļ			out.		
L	<u>l</u>	<u> </u>	<u> </u>		J

BCPM Worksook: Rptcalc.xls

GB	Maximum	Data for this	
	Loop Length	column	
į		developed for	
		each density	
		group only.	
		Appended to	
		record before	
		data is written	
	1	out.	:

# **BCPM**

Release 3.0

**Excel Logic Switching** 

Workbook: E:\bcpm3 Master Copy\Modules\switching\switch.xls

File date: 12/11/97 3:57:50 AM

Comments:

#### Worksheets:

LERG Inputs

FCC Inputs

SCM Inputs

ALSM Inputs

Userdata

Input Summary

LoopLinecount

Characteristics

Intermediate

Complex

RateCenter

Main Logic

Output

Global Inputs

State Default Inputs

Coefficient Inputs

### **Sheet: Userdata**

Col	Range Name	Column Name	Column	Formula	Formula
			Comment		Comment
A		CLLI			
В		OCN			
C		Switch Type			
D		Engineered			
		Calls /Line			
E		Engineered			
		CCS /Line			
F		Lines Trunk			
G		Percent Fill			

# **Sheet: Input Summary**

Col	Range Name	Column Name	Column Comment	Formula	Formula Comment
A	InpSumST	State	Comment	= STATE	Comment
B	InpSumOCN	OCN		= LergOCN	
C	InpSumCLLI	CLLI		= LergCLLI	\
D	InpSumHCLLI	HCLLI		= IF (LergHCLLI = 0, " ", LergHCLLI)	
E	InpSumCompl ex	Complex		= LergComplex	
F	InpSumCompl exID	ComplexID		= LergComplexID	
G	InpSumRTCT R	RATE CENTER		= LergRateCTR	
Н	InpSumSwVdr	SW Vendor	The model takes the switch vendor from the User Data table if available. If the switch vendor is not input, then the default switch type from the State Defaults data table is used. The ? indicates that the default was used.	= IF (ISERROR (VLOOKUP ('InpSumCLLI', userdata, 3, FALSE) ) , "?", (VLOOKUP (\$'InpSumCLLI', userdata, 3, FALSE) ) )	
I	InpSumHR	Host/ Remote		= IF (D3 < > " ", "R", IF (ISNA (VLOOKUP ('Input Summary'!C3, 'LERG Inputs'!D:E, 1, FALSE) ) , "S", "H") )	
J	InpSumResLin esEng	# of Res Lines (Eng.)		= InpSumResLinesWrk / VLOOKUP (InpSumST, defaults, 28, FALSE)	
K	InpSumBusLin esEng	#of Bus Lines (Eng.)		= InpSumBusLinesWrk / VLOOKUP (InpSumST, defaults, 28, FALSE)	
L	InpSumResLin esWrk	Working Lines Residence		= VLOOKUP ('InpSumCLLI', LineTable, 2, FALSE)	

M	InpSumBusLin	Working Lines	= VLOOKUP ('InpSumCLLI', LincTable, 3, FALSE)
171	esWrk	Business	- VLOOKOT (Impounicelet, Enterable, 3, PALSE)
N	InpSumEngCal	Engineered	= IF (InpSumOpt = 1, InpSumUsrCalls, IF (InpSumOpt = 2, InpSumDefcalls, InpSumCalcCalls)
``	ls	Calls/Line	)
0	InpSumEngCC	Engineered	= IF (InpSumOpt = 1, InpSumUsrCCS, IF (InpSumOpt = 2, InpSumDefCCS, InpSumCalcCCS) )
	S	CCS/Line	(inposition of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co
P	InpSumPctfill	Percent fill	= IF (NOT (ISNUMBER (VLOOKUP ('InpSumCLLI', userdata, 7, FALSE) ) ) , VLOOKUP
			(InpSumST, defaults, 28, FALSE), VLOOKUP ('InpSumCLLI', userdata, 7, FALSE))
Q	InpSumLnsTrk	Lines/Trunk	= IF (NOT (ISNUMBER (VLOOKUP ('InpSumCLLI', userdata, 6, FALSE) ) ) , VLOOKUP
			(InpSumST, defaults, 27, FALSE), VLOOKUP ('InpSumCLLI', userdata, 6, FALSE))
R	InpSumTrks	Trunks	= IF (InpSumHR = "R", 0, (InpSumResLinesEng + InpSumBusLinesEng) / InpSumLnsTrk)
S		Call	= VLOOKUP (MID (InpSumCLLI, 5, 2), 'State Default Inputs'!\$A\$3:\$AE\$54, 31, FALSE)
]		Completion	
		Fraction	
T		Busy Hour	= (InpSumEngCalls * InpSumFeatureLdMult) / S3
		Calls Factor	
U	InpSumSwCou	Switch Count	1
	nt		
V	InpSumOpt	Option	= IF (InpSumUsrCalls < > " ", 1, IF (Engineering_Option = "C", 3, 2))
W	InpSumUsrCal	Option 1: User	= IF (ISERROR (VLOOKUP ('InpSumCLLI', userdata, 4, FALSE) ), " ", (VLOOKUP
	ls	Input Calls	('InpSumCLLI', userdata, 6, FALSE))))
		/Line	
X	InpSumUsrCC	Option 1: User	= IF (ISERROR (VLOOKUP ('InpSumCLLI', userdata, 5, FALSE) ), "", (VLOOKUP
	S	Input CCS	('InpSumCLLI', userdata, 7, FALSE) ) )
		/Line	
Y	InpSumDefcall	Option 2:	= VLOOKUP (InpSumST, defaults, 6, FALSE)
	S	Default Calls	
<u> </u>		/Line	
Z	InpSumDefCC	Option 2:	= VLOOKUP (InpSumST, defaults, 7, FALSE)
1	S	Default	
	1 0 010	CCS/Line	AN COMMENT OF CALL OF THE LAND COMMENT OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF THE CALL OF
AA	InpSumCalcCa	Option 3:	= VLOOKUP (InpSumST, defaults, 16, FALSE)
	lls	Calculated	
A.D.	In C. Cul C.	Calls /Line	VI COVUD (I., C., CT. J.C., Iz. TALCE)
AB	InpSumCalcC CS	Option 3: Calculated	= VLOOKUP (InpSumST, defaults, 17, FALSE)
	CS	CCS /Line	
AC	InpSumOffPct	Office Percent	= InpSumBusLinesEng / (InpSumBusLinesEng + J3)
AC	BusLin	Business Lines	- InpounibusLinesEng / (InpounibusLinesEng + 13)
AD	InpSumSlope	Slope	= (HB_Mult - Min_Mult) / (1 - Bus_Pen_Ratio)
AD	1 inpaunisiope	1 Stobe	- (11D_vitalt - Willi_Witalt) / (1 - Dus_Fell_Katio)

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### BCPM WorkLook: switch.xls

AE	InpSumFeature	Feature	= IF (AC3 < Bus_Pen_Ratio, Min_Mult, Min_Mult + (AC3 - Bus_Pen_Ratio) * AD3)	
İ	LdMult	Loading		
		Multiplier		
AF	InpSumProcUs	Proc Usage to	= (InpSumFeatureLdMult - 1) / InpSumFeatureLdMult	
L	g	Feature		

**Sheet: LoopLinecount** 

Col	Range Name	Column Name	Column	Formula	Formula
			Comment		Comment
A		CLLI			
В		Reslines			
C		Buslines			

## **Sheet: Characteristics**

Col	Range Name	Column Name	Column Comment	Formula	Formula Comment
A	Workpaper	Title	Comment	State	Comment
B	Workpaper	Titic		State	
C	Characteristics		The purpose of	= STATE	
	Characteristics		this sheet is to	STATE	
			develop		
			allocation		
			percentages to		
			assign the		
			appropriate		
			portion of each		
			total		
		1	investment		,
			bucket to USF.		
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E					
F					
G					
Н					
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W					
X					
Y					
Z					

AA				
AB				
AC				
AD				
AE				
AF				
AG				
AH				
ΑI				
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AK				
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AM				
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